AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) A method of treatment of a sequence of x-ray images of a body, comprising:

~~the acquisition of~~ acquiring an image sequence including a current image and a preceding image, and filtering the current image and the preceding image[[,]];

~~the elaboration~~ elaborating for each acquired current image of a current filtered image from the acquired current image and from the preceding filtered image[[,]]; and

~~visualization of~~ visualizing the elaborated and filtered image sequence[[,]];

wherein for each acquired current image, ~~the~~ a displacement of the current image is determined relative to the acquired preceding image in ~~the~~ an image acquisition plane, a displaced preceding filtered image is elaborated by spatially displacing the preceding filtered image, taking the displacement of the current image into account, and the current filtered image is elaborated by ~~the~~ a weighted average between the acquired current image and the displaced preceding filtered image, so as to improve the quality of the images visualized.

2. (original) The method according to claim 1, in which the body is laid on a movable table, wherein the displacement of the current image is determined in the image acquisition plane from the value of displacement of the table and spatial orientation and distance of the acquisition plane relative to the table.

3. (currently amended) The method according to claim 1, wherein the displacement of the current image is determined in the image acquisition plane from ~~the~~ content of the acquired images.

4. (new) The method according to claim 1, wherein the current filtered image is elaborated by a weighted average according to the following:

applying a first weighting coefficient to the displaced preceding filtered image and a second weighting coefficient to the acquired current image.

5. (new) The method according to claim 4, wherein the sum of the first and the second weighting coefficients is equal to one.

6. (new) The method according to claim 4, wherein the first weighting coefficient is less than the second weighting coefficient.

7. (new) The method according to claim 4, wherein the first weighting coefficient is equal to about 0.2.

8. (new) The method according to claim 4, wherein the second weighting coefficient is a function of the first weighting coefficient.

9. (new) The method according to claim 7, wherein the first weighting coefficient is a function of the acquired current image, the displaced preceding filtered image, or both.